UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

207 WEINGADTE	7590 02/28/2003 N, SCHURGIN, GAGNE	FRIN & LEROVICI	EXAMINER WONG, ALLEN C		
LLP	,				
TEN POST OFFICE SQUARE BOSTON, MA 02109			ART UNIT	CLASS-SUBCLASS	
200701., 1.2.	V -		2613	348-149000	
			DATE MAILED: 02/28/2003		
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO.	
09/444 084	11/22/1999	MICHAEL T. GLIER	NEST-007XX	8176	

MICHAEL T. GLIER

TITLE OF INVENTION: TRAFFIC LIGHT VIOLATION PREDICTION AND RECORDING SYSTEM

11/22/1999

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$650	\$0	\$650	05/28/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

09/444,084

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

			<u>Fax</u>	(703)746-4000) .	
INSTRUCTIONS: This for appropriate. All further cor indicated unless corrected I maintenance fee notification	below or directed otherwi	ansmitting the ISSUE F e Patent, advance orders se in Block 1, by (a) spe	EE and PUBLIC and notification ecifying a new co	ATION FEE (if of maintenance feorrespondence add	required). Blocks 1 through 4 ses will be mailed to the current ress; and/or (b) indicating a sep	hould be completed where correspondence address a arate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE	llock 1)	Note: A certifica	ite of mailing can only be used for ttal. This certificate cannot	or domestic mailings of the		
207 75		accompanying p	papers. Each additional paper,	such as an assignment or		
WEINGARTEN,	SCHURGIN, GAO	GNEBIN & LEBO	VICI	formal drawing,	must have its own certificate of t	nailing or transmission.
LLP					Certificate of Mailing or Tran	smission
TEN POST OFFIC	E SQUARE			I hereby certify	that this Fee(s) Transmittal is	being deposited with the
BOSTON, MA 021	109 .			envelope addres	that this Fee(s) Transmittal is stal Service with sufficient posta sed to the Box Issue Fee address e USPTO, on the date indicated b	above, or being facsimile
				transmitted to th	e USPIO, on the date indicated t	(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	11/22/1999		ICHAEL T. GLI		NEST-007XX	8176
09/444,084 TITLE OF INVENTION: T					NEST-00/XX	8170
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBL	ICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$650	•	\$0	\$650	05/28/2003
EXAMI	NER	ART UNIT	CLASS-SUBC	LASS		
WONG, A	LLEN C	2613	348-14906			
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1. Change of corresponder CFR 1.363).	nce address or indication of	f "Fee Address" (37	the names of u	on the patent from p to 3 registered	patent attorneys	
☐ Change of correspond Address form PTO/SB/1	ence address (or Change of 22) attached.	f Correspondence	single firm (h	alternatively, (2)	er a registered	
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
3. ASSIGNEE NAME AND	DESIDENCE DATA TO	RE PRINTED ON THE	PATENT (print (or type)	· · · · · · · · · · · · · · · · · · ·	
			-		f assignee data is only appropria	te when an accionment has
been previously submitted	to the USPTO or is being	submitted under separate	cover. Completic	on of this form is N	IOT a substitute for filing an assi	gnment.
(A) NAME OF ASSIGNE	E	(B) RE	SIDENCE: (CIT	Y and STATE OR	COUNTRY)	
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Please check the appropriate	e assignee category or cate	gories (will not be printed	i on the patent)	☐ individual	corporation or other private g	roup entity 🚨 government
4a. The following fee(s) are		1	ment of Fee(s):		_F _S	
-	Chiorosou.			t of the fee(s) is en	closed	
☐ Issue Fee				d. Form PTO-2038		
□ Publication Fee		•	•		by charge the required fee(s), or	credit any overnayment to
☐ Advance Order - # of C	Copies		t Account Number		enclose an extra copy of this	
Commissioner for Patents is	s requested to apply the Iss	ue Fee and Publication Fe	ee (if any) or to re	-apply any previo	usly paid issue fee to the applicat	ion identified above.
(Authorized Signature)		(Date)		ī		
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NOTE; The Issue Fee an other than the applicant; interest as shown by the re	a registered attorney or a cords of the United States	agent; or the assignee of Patent and Trademark Of	r other party in ffice.			•
	ation is required by 37 CF					•

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C 20231.

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/444,084	11/22/1999	MICHAEL T. GLIER	NEST-007XX	8176
207	7590 02/28/2003		EXAMINI	ER
	N, SCHURGIN, GAGI	NEBIN & LEBOVICI	WONG, AL	LEN C
LLP TEN POST OFF	ICE SOUARE		ART UNIT	PAPER NUMBER
BOSTON, MA)2109		2613	
UNITED STATES			DATE MAILED: 02/28/2003	

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/444,084 11/22/1999		MICHAEL T. GLIER	NEST-007XX	8176	
207	7590 02/28/2003		EXAMIN	ER	
	EN, SCHURGIN, GAGNEI	BIN & LEBOVICI	WONG, AL	LEN C	
LLP TEN POST OF	FICE SOLIARE		ART UNIT	PAPER NUMBER	
BOSTON, MA	02109		2613		
UNITED STAT	UNITED STATES		DATE MAILED: 02/28/2003		

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
New Sallana Ballana Billia	09/444,084	GLIER ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Allen Wong	2613	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31 1. This communication is responsive to	(OR REMAINS) CLOSED) or other appropriate comi RIGHTS. This application is	in this application. If not include nunication will be mailed in due	ed course. THIS
 This communication is responsive to The allowed claim(s) is/are <u>1-6,8-24 and 26-70</u>. 			
3. The drawings filed on are accepted by the Examine	er.		
 Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 	der 35 U.S.C. § 119(a)-(d)	or (f).	
 Certified copies of the priority documents hav 	e been received.		
2. Certified copies of the priority documents hav	e been received in Applica	tion No	
3. Copies of the certified copies of the priority do	ocuments have been receiv	ed in this national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority u	under 35 U.S.C. § 119(e) (t	o a provisional application).	
(a) The translation of the foreign language provisional	application has been receiv	ved.	
6. Acknowledgment is made of a claim for domestic priority to	under 35 U.S.C. §§ 120 and	d/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of			
7. A SUBSTITUTE OATH OR DECLARATION must be subinformal PATENT APPLICATION (PTO-152) which gives rea			NOTICE OF
8. CORRECTED DRAWINGS must be submitted.			
(a) including changes required by the Notice of Draftspe	rson's Patent Drawing Rev	iew (PTO-948) attached	
1) ⊠ hereto or 2) ☐ to Paper No			
(b) including changes required by the proposed drawing	correction filed, wl	nich has been approved by the E	Examiner.
(c) \square including changes required by the attached Examine	r's Amendment / Comment	or in the Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pape			
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR			Note the
Attachment(s)			
 1⊠ Notice of References Cited (PTO-892) 3⊠ Notice of Draftperson's Patent Drawing Review (PTO-948) 5⊠ Information Disclosure Statements (PTO-1449), Paper No. 2 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	45618 4□ Intervi 6□ Exami	e of Informal Patent Application (ew Summary (PTO-413), Paper ner's Amendment/Comment ner's Statement of Reasons for CHRIS KELLEY SUPERVISORY PATENT EXA TECHNOLOGY CENTER 2	No Allowance
HO British and Today of Office		TECHNOLOGY CENTER A	UNU

Application/Control Number: 09/444.084

Art Unit: 2613

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-6, 8-24 and 26-70 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the prior art references do not teach the applicant's invention. Neither White, Toyama, Loeven, Daly nor Cohen teach the combination of limitations as disclosed in claims 1, 18, 35 and 52, especially the limitation of "a violation prediction unit, responsive to said violation prediction image capturing device and an indication of said current traffic light phase. wherein said violation prediction unit is operative to generate a violation probability score for said at least one vehicle approaching said traffic signal, said violation probability score reflecting a likelihood that said at least one vehicle will violate a red light phase of said traffic signal". White discloses the documentation of traffic light violators while protecting non-violating drivers by using sensors. Toyama and Loeven disclose the monitoring of traffic light violators and speed of the violators using cameras and sensors. Daly discloses the capturing of images of red traffic violators with digital cameras. Cohen discloses the passive road sensor for automatically monitoring traffic violations by determining the time of impact. However, none of the prior art references teach the specifics of the aforementioned limitation "violation probability score".
- 3. Furthermore, since none of the prior art references teach the aforementioned limitation of generating a "violation probability score", the prior art also does not specifically teach the comparison of this "violation probability score" to a predetermined violation probability score threshold. Thus, the case has patentable merit.

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Application/Control Number: 09/444,084

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

White (US 6,100,819), Vehicular Traffic Signalization Method and Apparatus for Automatically Documenting Traffic Light Violations and Protecting Non-Violating Drivers; Toyama (US 5,432,547), Device for Monitoring Disregard of a Traffic Signal; Loeven (US 5,041,828), Device for Monitoring Traffic Violating and for Recording Traffic Statistics;

Daly et al. (US 5,948,038), Traffic Violation Processing System; and

Cohen et al. (US 6,075,466), Passive Road Sensor for Automatic Monitoring and

Method Thereof.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (703) 306-5978. The examiner can normally be reached on Mondays to Thursdays from 8am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Kelley can be reached on (703) 305-4856. The fax phone

Art Unit: 2613

Page 4

numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Allen Wong Examiner Art Unit 2613

AW February 20, 2003

> CHRIS KELLEY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600